PROGRAMME

Tuesday 3rd Aug 2010

| | SESSION 1 FUNCTIONAL NANO-IMAGING Chair: Motohiro Takeda (Tohoku University) |
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| 14:30-14:45 | Quantitative Analysis of Amyloid Beta Deposition in the Brain of Alzheimer's Disease Patients using PET and [11C]BF-227 and [18F]FACT |
| | Manabu Tashiro (Division of Cyclotron Nuclear Medicine, Cyclotron and Radioisotope Center, Tohoku University) |
| 14:45-15:00 | Imaging Amyloid Deposits using [18F]FACT-PET for Early Diagnosis of Alzheimer's Disease |
| | He Shao (Department of Pharmacology, Graduate School of Medicine, Tohoku University) |
| 15:00-15:15 | Age-related Changes on Properties of Structural Brain Networks in Healthy Individuals |
| | Kai Wu (Department of Nuclear Medicine and Radiology, Institute of Development, Aging and Cancer (IDAC), Tohoku University) |
| 15:15-15:30 | Quantitative Analysis of Donepezil Binding to Acetylcholinesterase using PET and [5-11C- <i>methoxy</i>]donepezil |
| | Kotaro Hiraoka (Division of Cyclotron Nuclear Medicine, Cyclotron and Radioisotope Center, Tohoku University) |
| 15:30-15:45 | Measurement of Histamine Release Change in Living Human Brain Associated with Stress and Circadian Rhythm |
| | Katsuhiko Shibuya (Departments of Pharmacology, Graduate School of Medicine, Tohoku University) |
| 15:45-16:00 | Scientific Evaluation on Effects of Chiropractic Treatment, a Type of Manual Therapy, using Magnetic Resonance Imaging (MRI) and Positron Emission Tomography (PET) |
| | Takeshi Ogura (Division of Cyclotron Nuclear Medicine, Cyclotron and Radioisotope Center, Tohoku University) |
| 16:00-16:30 | Coffee Break |
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| | Session 2 Nano-Oncology |
| | SESSION 2 NANO-ONCOLOGY Chair: Matsuhiko Nishizawa (Tohoku University) |
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Wednesday 4th Aug 2010

| | Session 3 Nano-Therapeutics |
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| | Chair: Hiroshi Wada (Tohoku University) |
| 9:00-9:30 | KEYNOTE LECTURE 2 |
| | Microfluidic Biological Fuel Cells: Automatic Series-connection and Relay Systems |
| | Matsuhiko Nishizawa (Department of Bioengineering and Robotics, Graduate School of Engineering, Tohoku University) |
| 9:30-9:45 | Development of a Micro Fluidic Device to Separate Cancer Cells from Blood |
| | Tatsuya Tanaka (Department of Bioengineering and Robotics, Graduate School of Engineering, Tohoku University) |
| 9:45-10:00 | Effects of Lamb Wave in Therapeutic Ultrasound Transducer by Vibration Analysis |
| | Kenji Otsu (Department of Biomedical Engineering, Graduate School of Biomedical Engineering, Tohoku University) |
| 10:00-10:15 | Development of Retinal Prosthesis Module for Fully Implantable Retinal Prosthesis |
| | Kangwook Lee (New Industry Creation Hatchery Center (NICHe), Tohoku University) |
| 10:15-10:30 | Effects of Animal Assisted Therapy on Central Nervous System Function in Human: a PET Study. |
| | Mehedi Masud (Division of Cyclotron Nuclear Medicine, Cyclotron and Radioisotope Center, Tohoku University) |
| 10:30-11:00 | Coffee Break |
| | SESSION 4 NANOBIOMECHANICS Chair: Hiroshi Fukuda (Tohoku University) |
| 11:30-12:00 | KEYNOTE LECTURE 3 |
| | Effect of Spatial Gradient of Shear Stress on Morphological Responses of Endothelial Cells to Flow |
| | Naoya Sakamoto (Department of Bioengineering and Robotics, Graduate School of Engineering, Tohoku University) |
| 12:00-12:15 | Recovery by Salicylate of the Plasma Membrane Expression of Prestin Mutants |
| | Hiroshi Wada (Department of Bioengineering and Robotics, Graduate School of Engineering, Tohoku University) |
| 12:15-12:30 | Acoustic Impedance Evaluation of Thermally Denatured and Non-denatured Biological Tissues |
| | Takashi Shishitani (Department of Electrical and Communication Engineering, Graduate School of Engineering, Tohoku University) |

Analysis of Swallowing Motion Based on Videofluorography

Kenichi Funamoto (Institute of Fluid Science, Tohoku University)

Blood Flow in an Aortic Aneurysm

Shunichi Ishida (Department of Bioengineering and Robotics, Graduate School of Engineering, Tohoku University)

Effect of Measurement Error on Ultrasonic-Measurement-Integrated Simulation of

12:30-12:45

12:45-13:00